FIG. 1

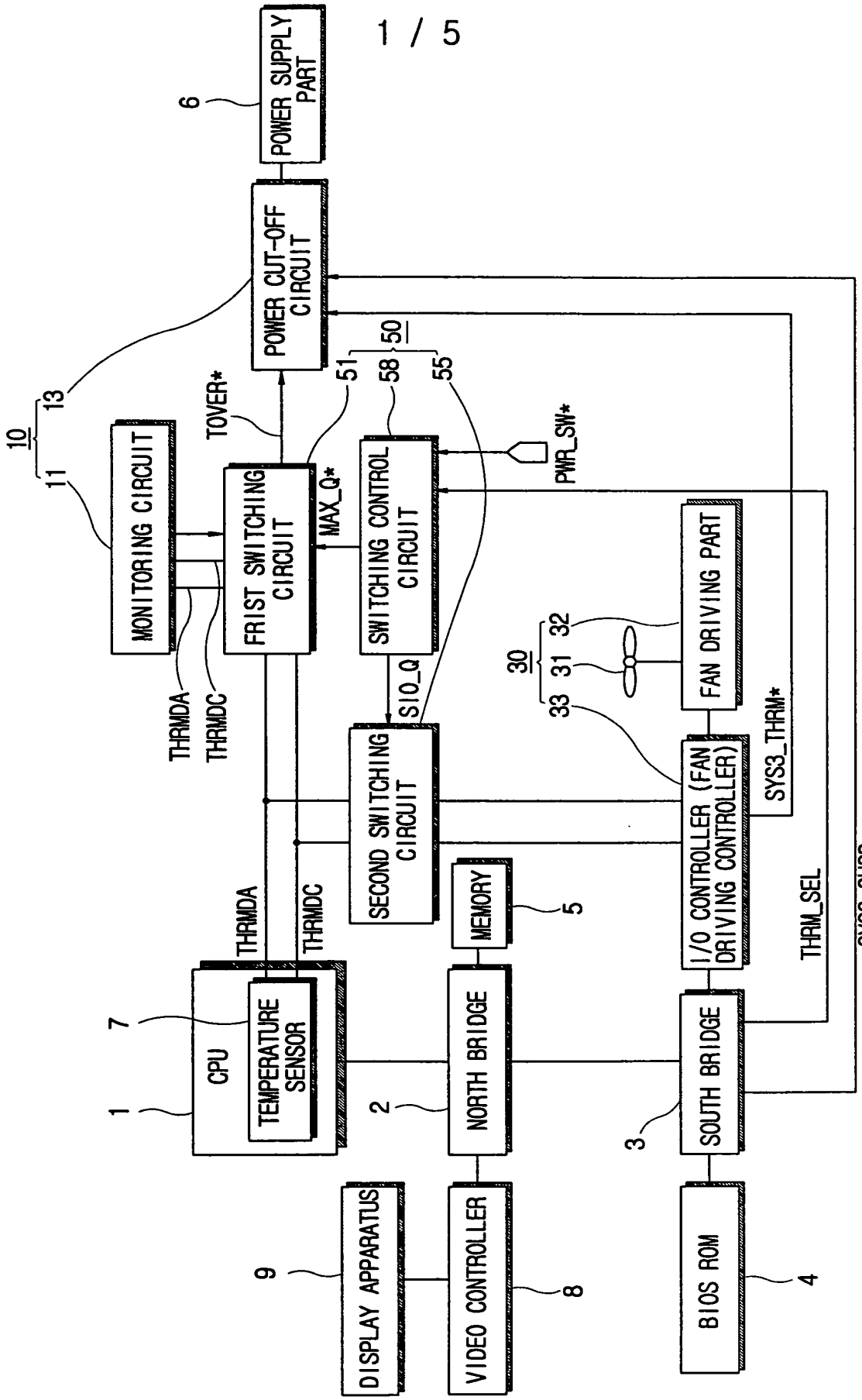

POWER SUPPLY PART
6
POWER CUT-OFF CIRCUIT
10
13
11
MONITORING CIRCUIT
TOVER*
FRIST SWITCHING CIRCUIT
MAX_Q*
51
50
58
55
SWITCHING CONTROL CIRCUIT
PWR_SW*
THRMDA
THRMDC
SIO_Q
30
31
32
33
FAN DRIVING PART
SECOND SWITCHING CIRCUIT
I/O CONTROLLER (FAN DRIVING CONTROLLER)
SYS3_THRM*
THRM_SEL
SYS3_SUSB*
MEMORY
5
7
CPU
TEMPERATURE SENSOR
1
2
NORTH BRIDGE
3
SOUTH BRIDGE
9
DISPLAY APPARATUS
VIDEO CONTROLLER
8
BIOS ROM
4

FIG. 2

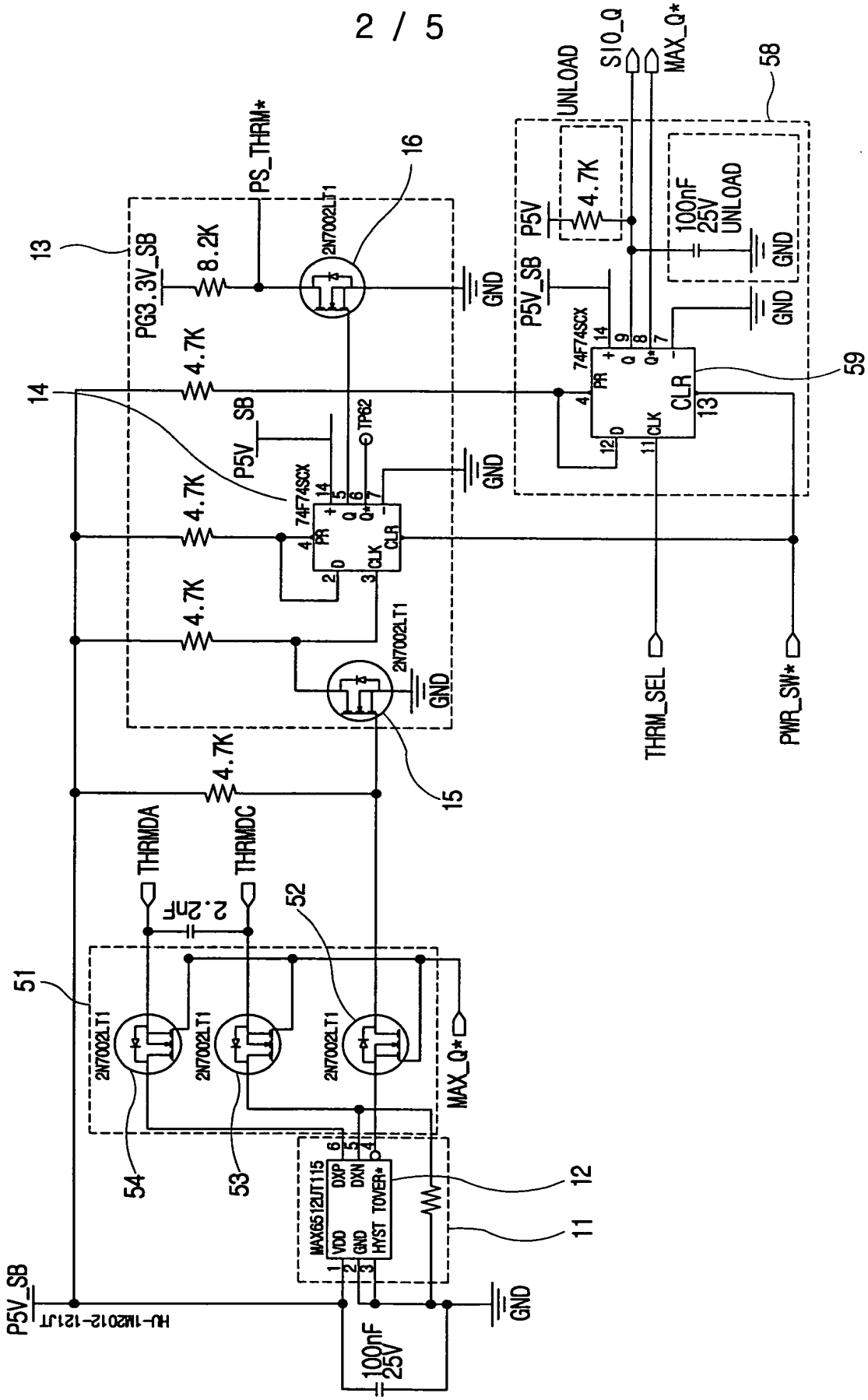

P5V_SB
PG3.3V_SB
PS_THRM*
8.2K
4.7K
2N7002LT1
74F74SCX
TP62
GND
THRMDA
THRMDC
2.2nF
MAX6512UT115
DXP
DXN
VDD
GND
HYST
TOVER*
100nF
25V
MAX_Q*
UNLOAD
SIO_Q
100nF
25V
THRM_SEL
PWR_SW*
13
14
15
16
51
52
53
54
58
59

FIG. 3

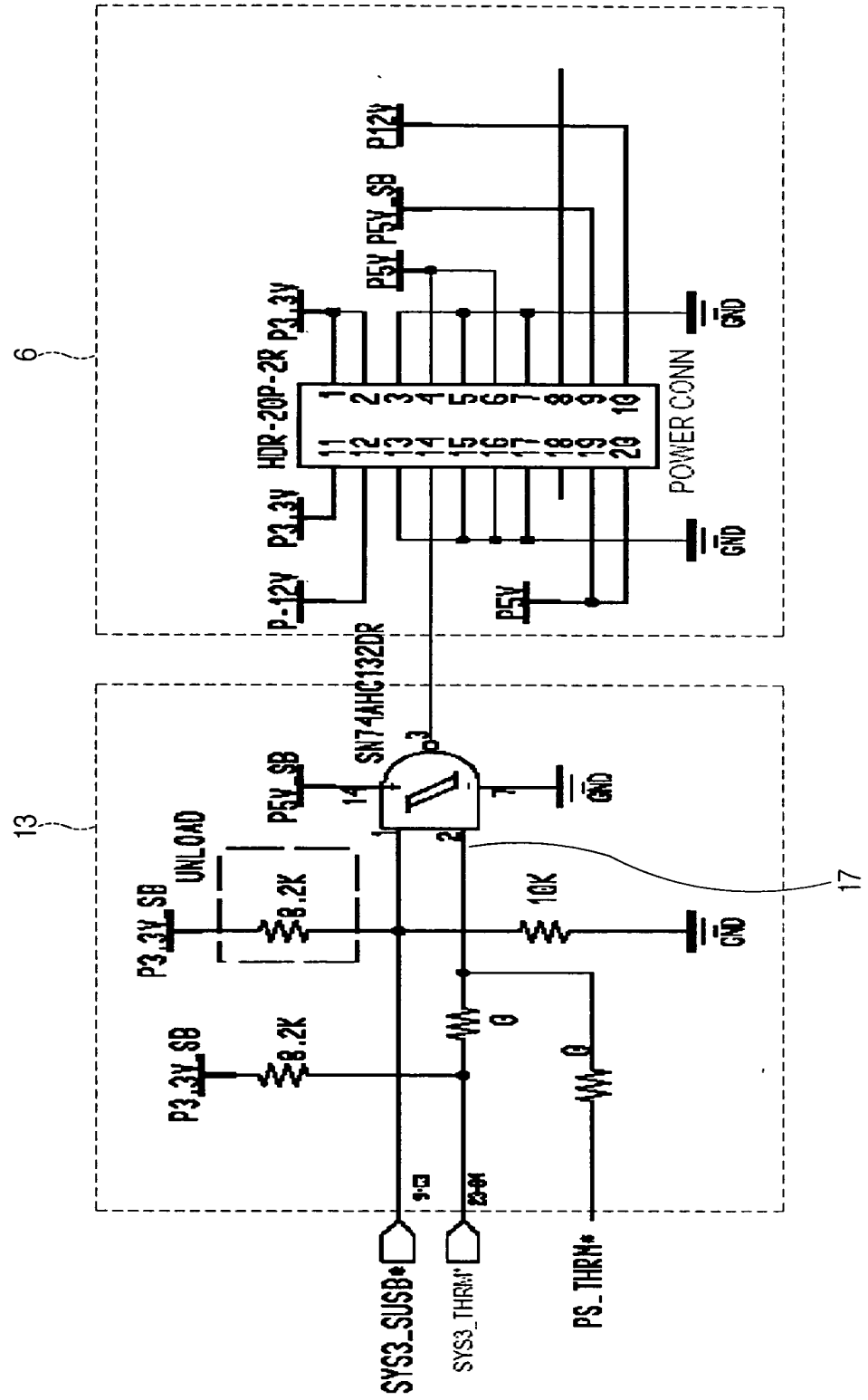

6
13
17
HDR-20P-2R
POWER CONN
P12V
P5V_SB
P5V
P3.3V
GND
P-12V
SN74AHC132DR
UNLOAD
8.2K
16K
0
SYS3_SUSB*
SYS3_THRM*
PS_THRM*

FIG. 4

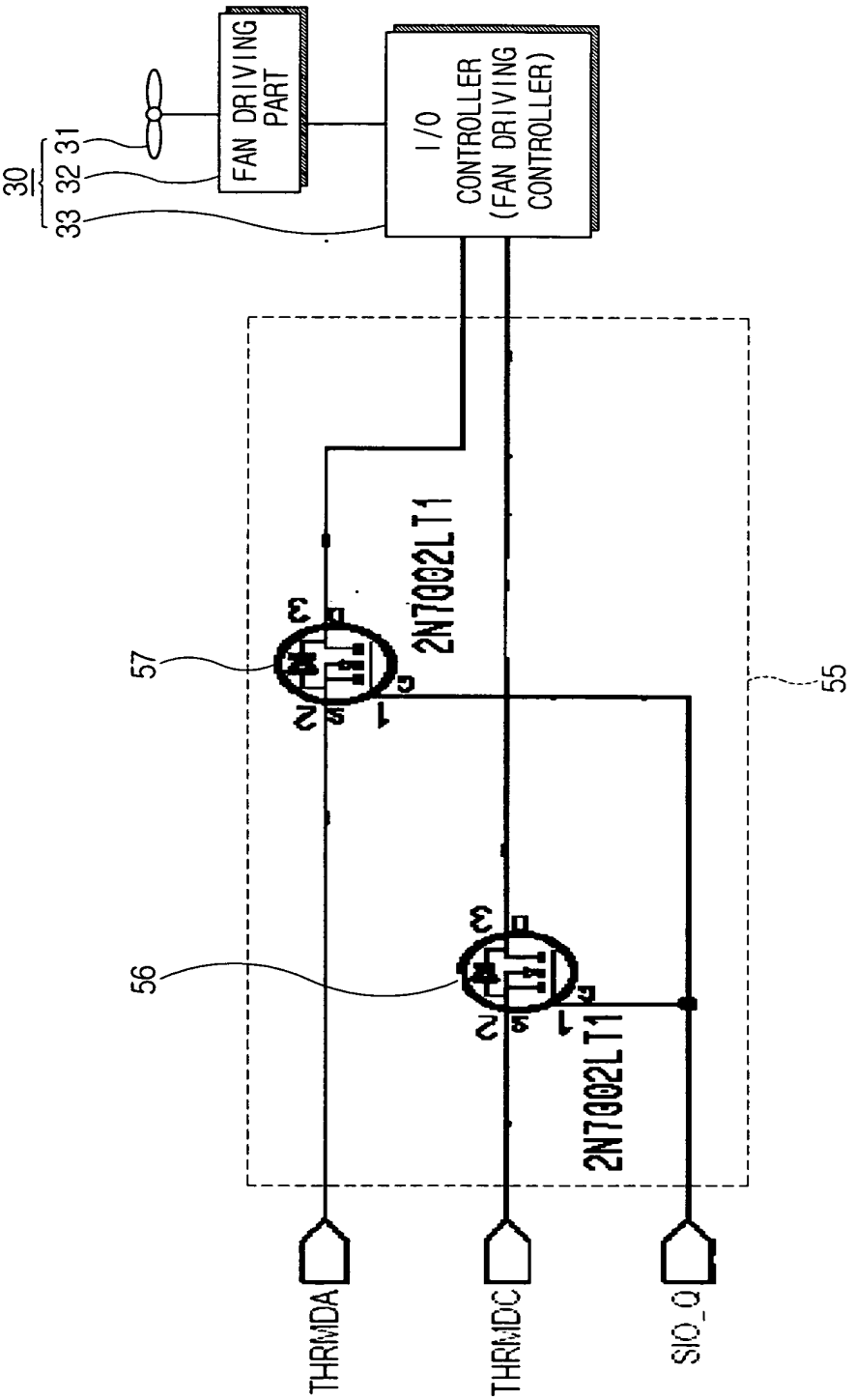
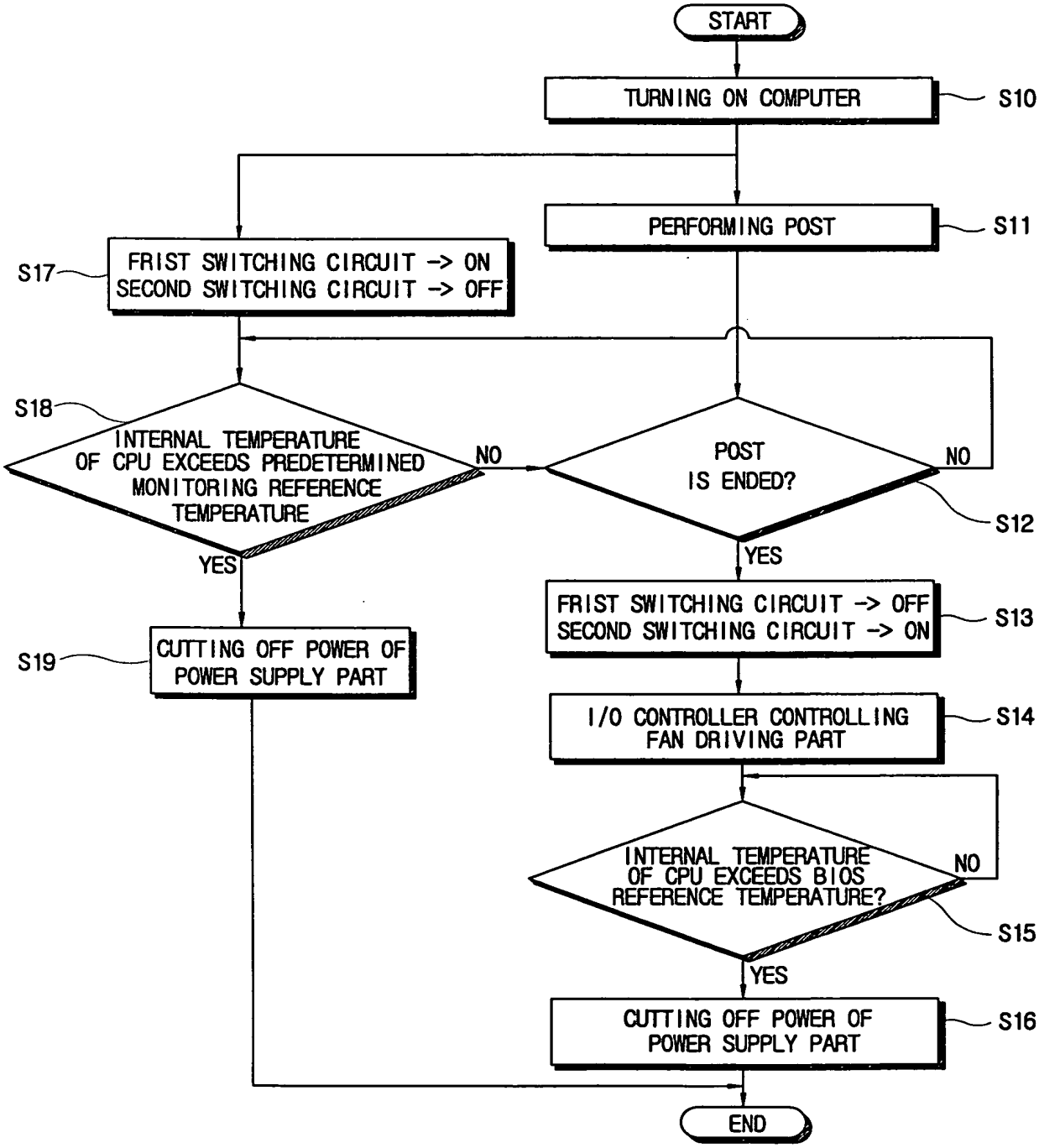

30
31
32
33
FAN DRIVING PART
I/O CONTROLLER (FAN DRIVING CONTROLLER)
55
56
57
2N7002LT1
2N7002LT1
THRMDA
THRMDC
SIO_Q

FIG. 5


START
TURNING ON COMPUTER
S10
PERFORMING POST
S11
FRIST SWITCHING CIRCUIT -> ON
SECOND SWITCHING CIRCUIT -> OFF
S17
S18
INTERNAL TEMPERATURE OF CPU EXCEEDS PREDETERMINED MONITORING REFERENCE TEMPERATURE
NO
YES
POST IS ENDED?
NO
S12
YES
FRIST SWITCHING CIRCUIT -> OFF
SECOND SWITCHING CIRCUIT -> ON
S13
CUTTING OFF POWER OF POWER SUPPLY PART
S19
I/O CONTROLLER CONTROLLING FAN DRIVING PART
S14
INTERNAL TEMPERATURE OF CPU EXCEEDS BIOS REFERENCE TEMPERATURE?
NO
S15
YES
CUTTING OFF POWER OF POWER SUPPLY PART
S16
END